#### MODEL VS

# NIM, DUAL CHANNEL 150MHZ VISUAL SCALER

#### FEATURES:

- · HIGH COUNTING SPEED, 150MHZ MIN.
- · EASY READING LED DISPLAYS
- INTERNAL TEST FEATURES
- · LOW POWER CONSUMPTION

The Joerger Enterprises Inc. Model VS is a high speed scaler packaged in a double width NIM module. It contains two identical eight digit counters. Visual readout is provided on two eight digit LED displays. Character height is .375 inches and leading zero suppression is incorporated thus providing a very readable display. A gate light and overflow light are provided for each channel. Testing features are provided to test the displays (display all 8's) and also to test the counters. The counters are tested by switching on an internal test oscillator which injects a test signal into each channel. When the test oscillator is switched off the two channels should track within +1 count verifying correct operation. This test input is inserted after the counting gate so that the module may be tested in the presence of external inputs simply by gating off the scaler. A three position gate switch is provided to "Enable", "Disable", or allow the channel to be remotely gated by an external gate signal. Reset is accomplished either manually or externally, a carry output signal is provided for each channel.

# SPECIFICATIONS (Identical for each channel)

#### INPUTS

Signal

Gate (bridged high impedance NIM input)

Impedance 5K ohms min.

Sensitivity -500mv to gate channel off
Response Time Less than 10ns

Reset (bridged TTL input, biased to logic "0", +2.5v min.)

Amplitude Logic "1", .5v max.

### OUTPUTS

Carry Out (note carry out is inhibited during reset) Amplitude

Pulse Width

-700mv min., into 50 ohms

250nsec typical

# DISPLAYS

Data Displayed on eight .375 LED displays with

leading zero suppression.

Gate An LED is provided to indicate when the

counting gate is open.

Overflow An LED is provided to indicate when that

channel has overflowed.

## MANUAL CONTROLS

Gate A three position switch is provided to open

(enable), close (disable), or allow gating from

an external input (remote).

Reset A pushbutton is provided to reset each channel.

> This switch is also used to test the display. When the switch is depressed all eights will

appear on the display.

Test A test switch is provided that injects test

> signals into each channel after the counting gate. Both channels should track during test

within +1 count.

POWER REQUIREMENTS +6v 200ma reset condition

600ma both displays all eights, test mode

-6v 480 ma

+12v 285ma

SIZE #2 NIM module

TEMPERATURE RANGE 00C to 500C

JEI0487